

U.S. Application No. 09/680,371

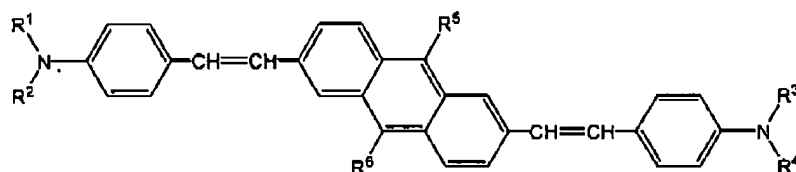
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IN THE CLAIMS

The following listing of claims replaces all prior listings:

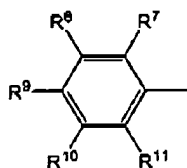
1. (Previously presented) A bis(aminostyryl)anthracene compound represented by formula [I], [II], [III], or [IV]

formula [I]:



where R² and R³ each denotes an unsubstituted aryl group, and R¹ and R⁴ each denotes an aryl group represented by formula (1)

formula (1)

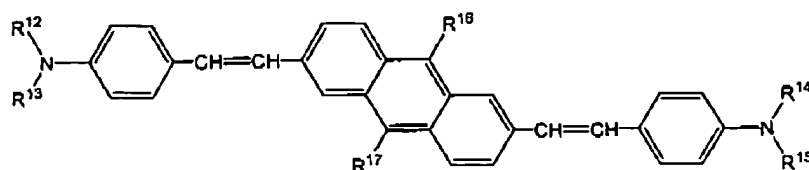


where R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are identical or different groups, at least one of them being a saturated or unsaturated hydrocarbon oxy group or hydrocarbon group having at least one carbon; and R⁵ and R⁶ are identical or different groups, at least one of them being a hydrogen atom, cyano group, nitro group, or halogen atom

formula [II]

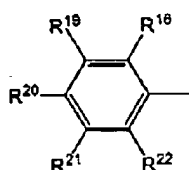
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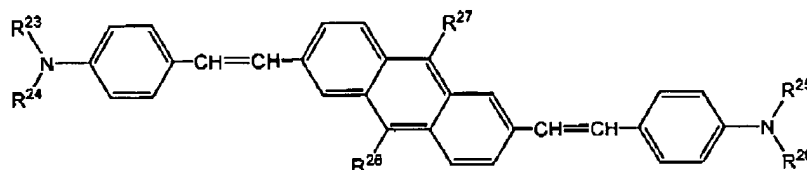
where R^{12} , R^{13} , R^{14} , and R^{15} are identical or different groups, each denoting an aryl group represented by formula (2)

formula (2)



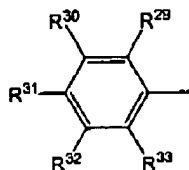
where R^{18} , R^{19} , R^{20} , R^{21} , and R^{22} are identical or different groups, at least one of them being a saturated or unsaturated hydrocarbon oxy group or hydrocarbon group having at least one carbon; and R^{16} and R^{17} are identical or different groups, at least one of them being a hydrogen atom, cyano group, nitro group, or halogen atom

formula [III]



where at least one of R^{23} , R^{24} , R^{25} , and R^{26} denotes an aryl group represented by formula (3), with the remainder being an unsubstituted aryl group

formula (3)



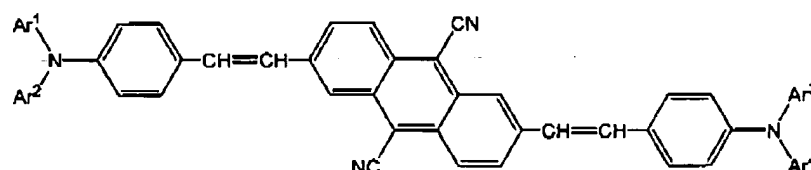
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where R^{29} , R^{30} , R^{31} , R^{32} , and R^{33} are identical or different groups, at least one of them being a saturated or unsaturated hydrocarbon amino group; and R^{27} and R^{28} are identical or different groups, at least one of them being a hydrogen atom, cyano group, nitro group, or halogen atom.

2. (Previously presented) A bis(aminostyryl)anthracene compound represented by formula (6)

formula (6)

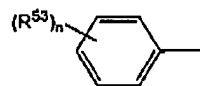


where Ar^1 , Ar^2 , Ar^3 , and Ar^4 are identical or different, each denoting an aryl group which may have a substituent, and if a substituent is present, said aryl group being one which is selected from aryl groups represented by formula (7), (8)

formula (7)



formula (8)



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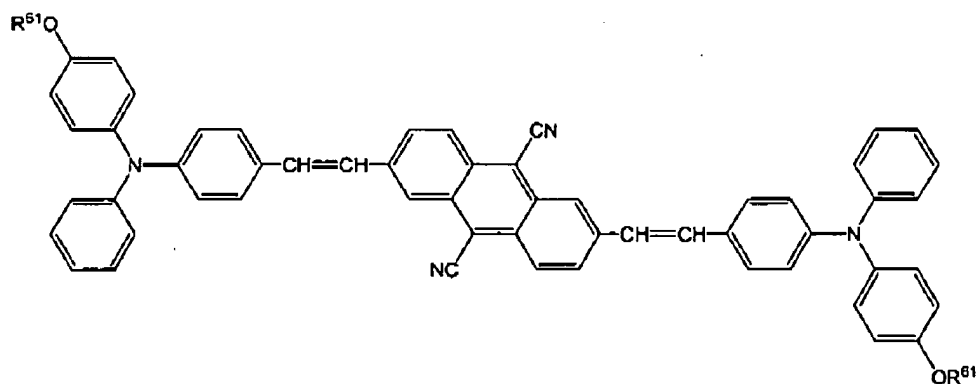
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where R^{52} , R^{53} , each denotes a saturated or unsaturated hydrocarbon group having one or more carbons; n is an integer of 0 to 6.

3. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 2, wherein R^{52} , R^{53} , each has from 1 to 6 carbons.

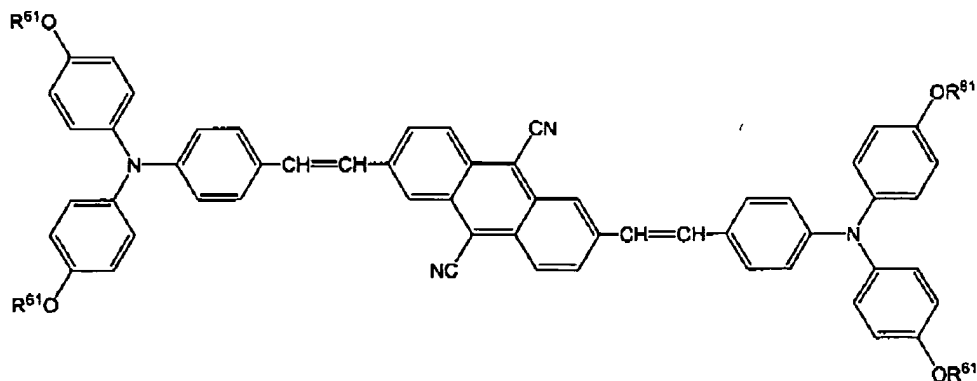
4. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 1 or 2 which is represented by formula (13), (13'), (14), (15)

formula (13)



where R^{61} denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (13')

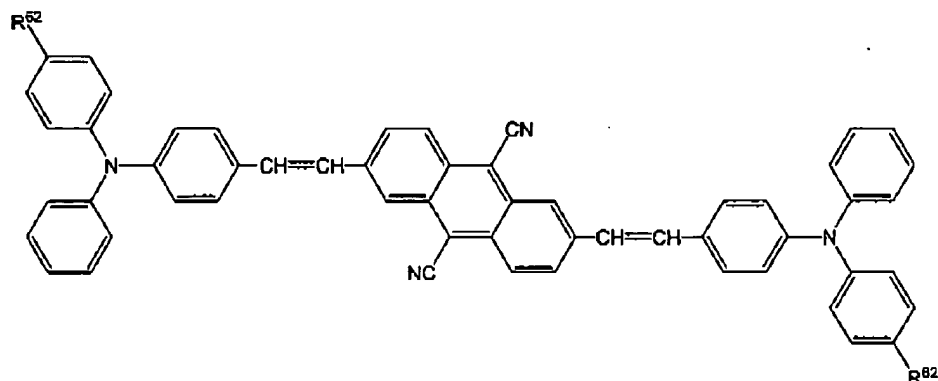


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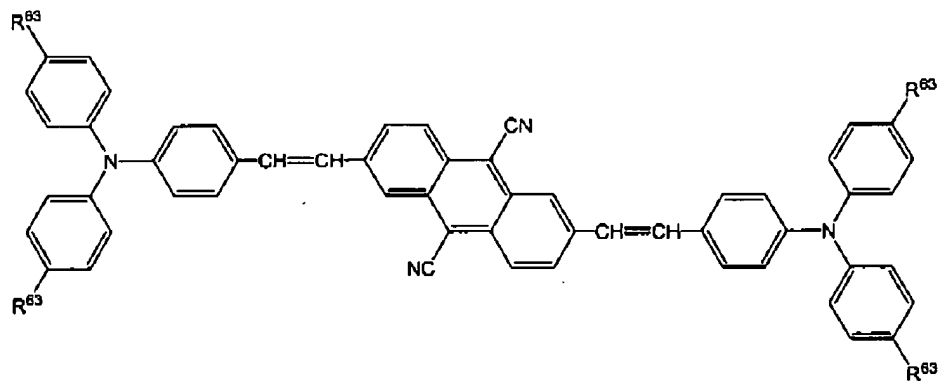
where R^{61} denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (14)



where R^{62} denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

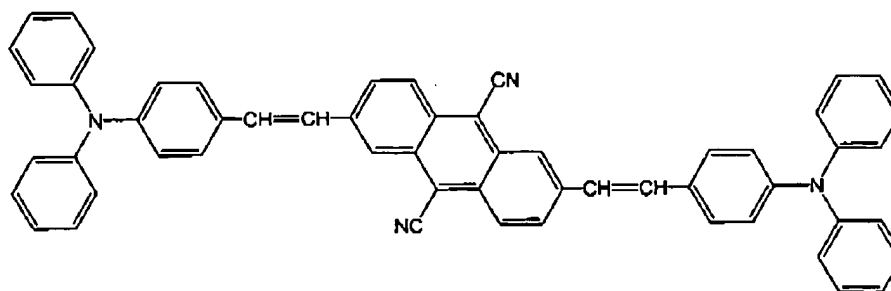
formula (15)



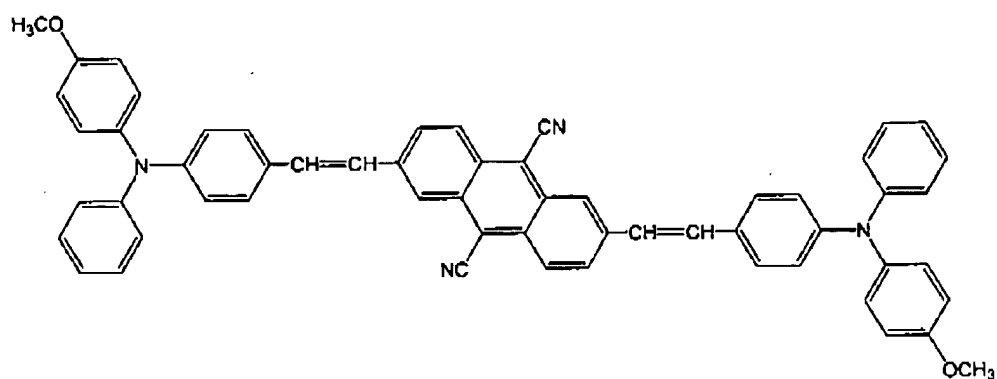
where R^{63} denotes a saturated or unsaturated hydrocarbon group or hydrocarbon oxy group having 1 to 6 carbon atoms.

5. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 1 or 2 which is represented by formulae (18)-1, (18)-2, (18)-2', (18)-3, (18)-4 or (18)-11

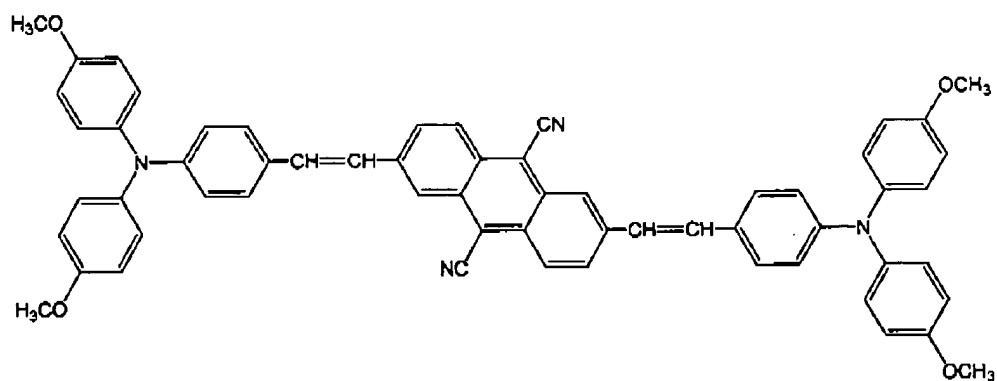
formula (18)-1



formula (18)-2



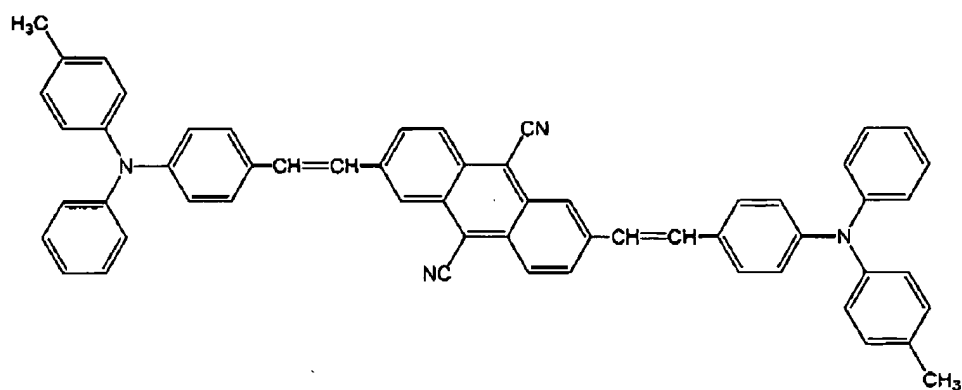
formula (18)-2'



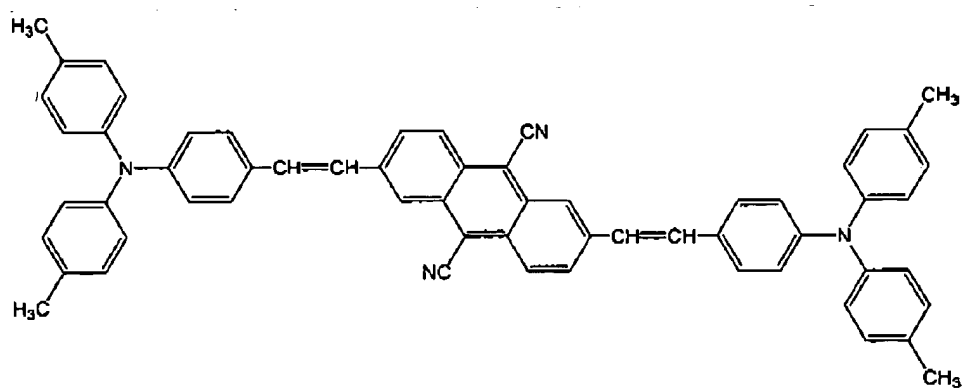
formula (18)-3

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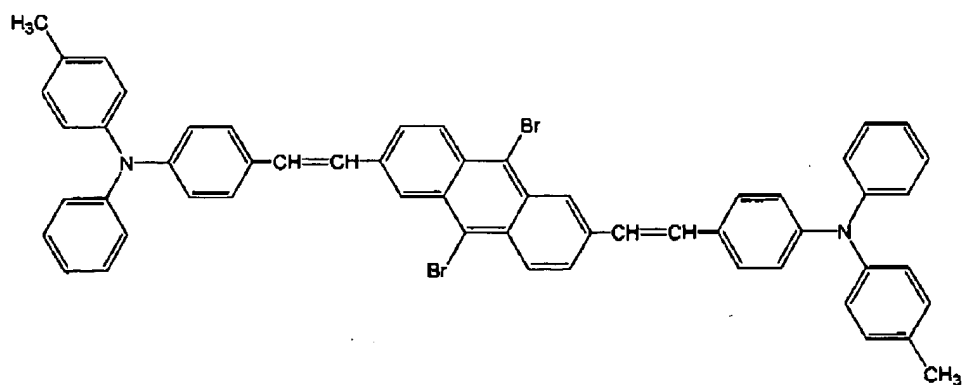
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formula (18)-4



formula (18)-11

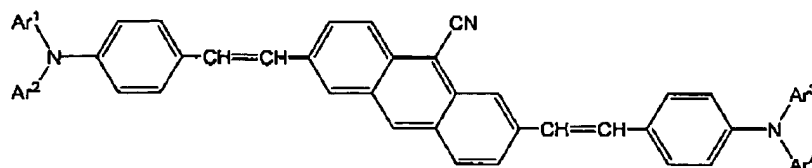


6. (Previously presented) A bis(aminostyryl)anthracene compound represented by formula (19)

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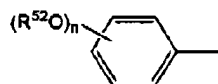
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formula (19)

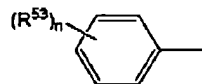


where Ar¹, Ar², Ar³, and Ar⁴ are identical or different, each denoting an aryl group which may have a substituent, and if a substituent is present, said aryl group being one which is selected from aryl groups represented by the general formula (7), (8)

formula (7)



formula (8)



where R⁵², R⁵³ each denotes a saturated or unsaturated hydrocarbon group having one or more carbons; n is an integer of 0 to 6.

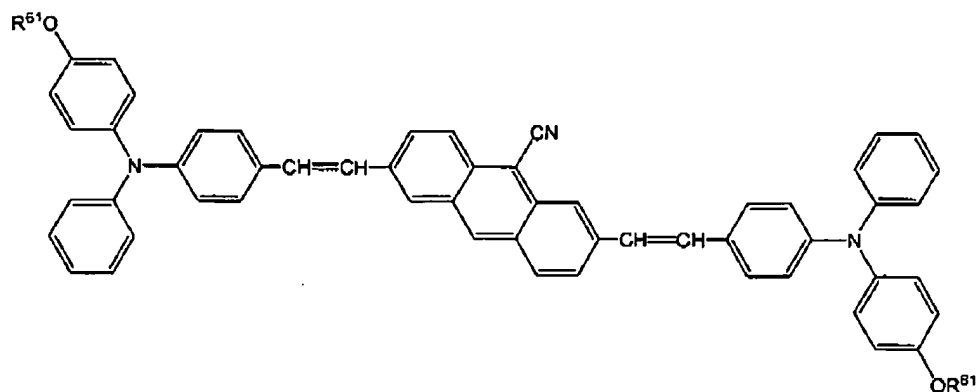
7. (Previously presented) A bis(aminostyryl)anthracene compound as defined in claim 6, wherein R⁵², R⁵³ each has 1 to 6 carbon atoms.

8. (Previously presented) A bis(aminostyryl)anthracene compound as defined in claim 1 or 6 which is represented by formula (20), (21), (22)

formula (20)

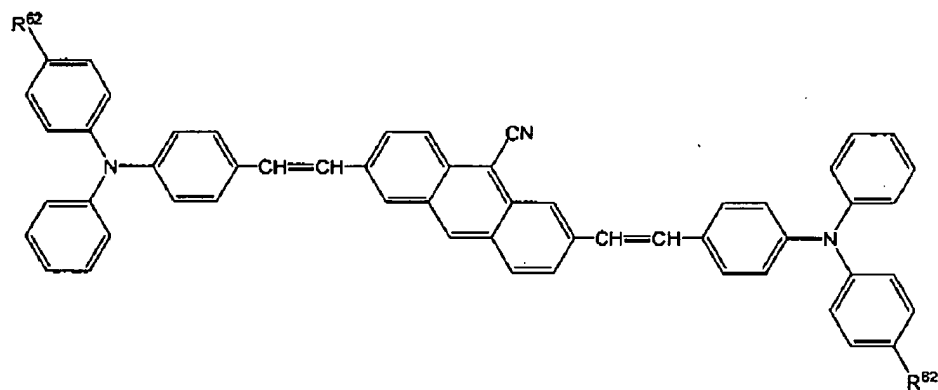
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where R⁶¹ denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (21)

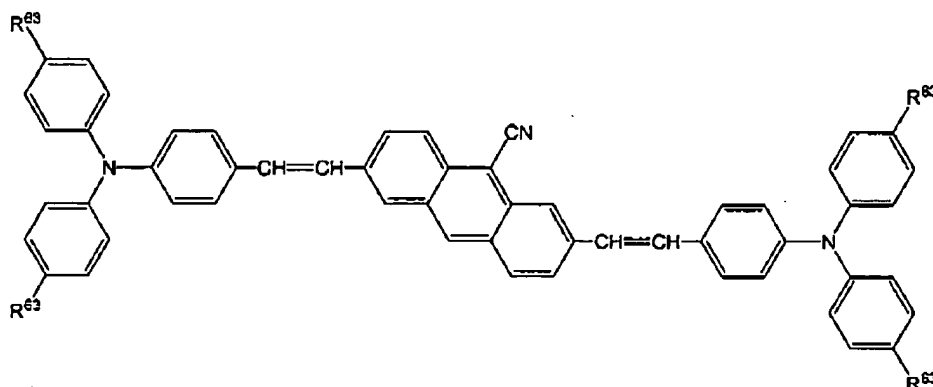


where R⁶² denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (22)

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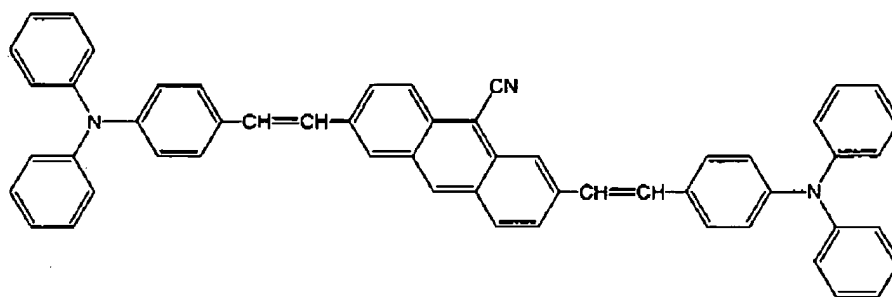
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where R⁶³ denotes a saturated or unsaturated hydrocarbon group or hydrocarbon oxy group having 1 to 6 carbon atoms.

9. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 1 or 6 which is represented by formulae (25)-1, (25)-2, (25)-2', (25)-3, (25)-4, or 25-(11)

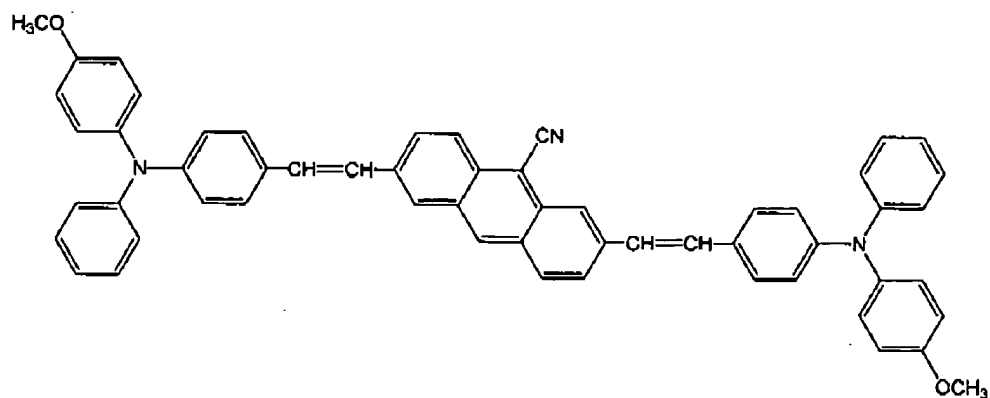
formula (25)-1



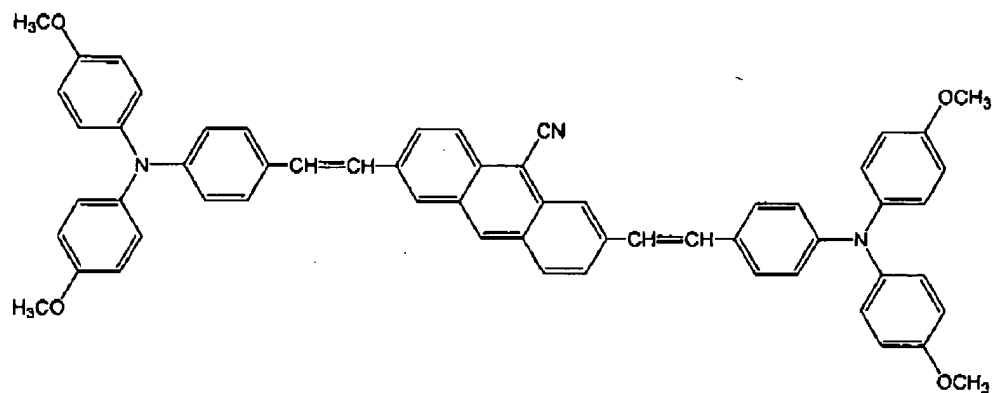
formula (25)-2

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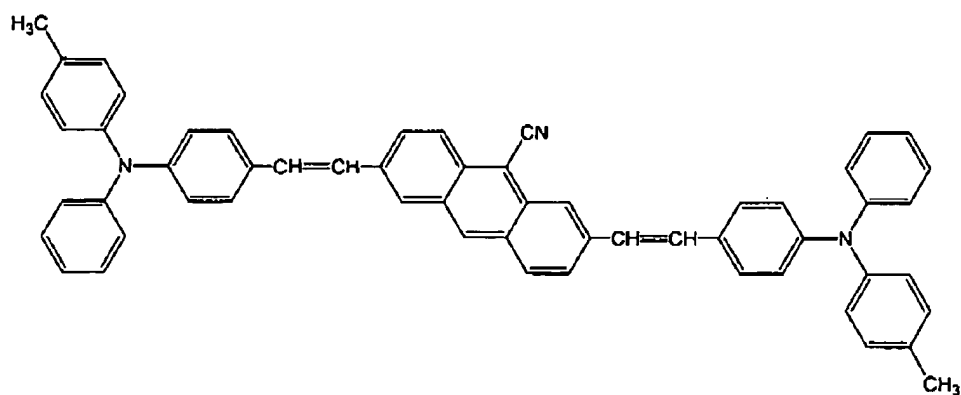
formula (25)-2'



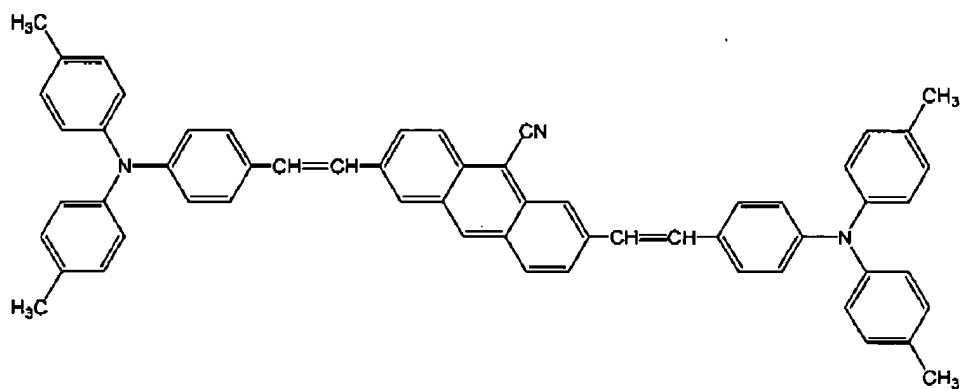
formula (25)-3

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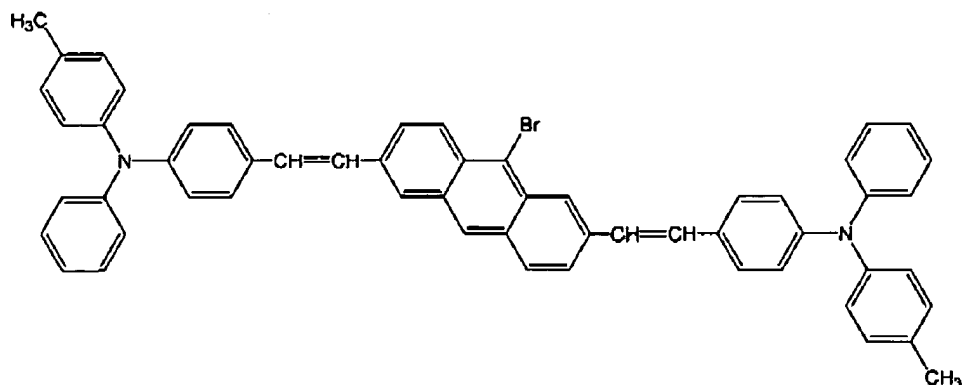
formula (25)-4



formula (25)-11

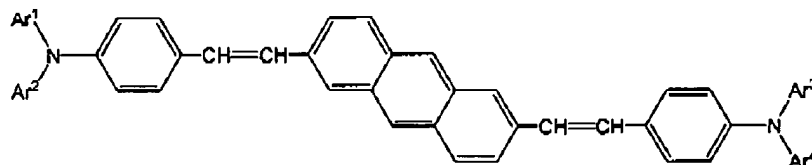
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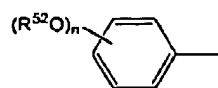
10. (Previously presented) A bis(aminostyryl)anthracene compound which is represented by formula (26)

formula (26)



where Ar^1 , Ar^2 , Ar^3 , and Ar^4 are identical or different, each denoting an aryl group which may have a substituent, and if a substituent is present, said aryl group being one which is selected from aryl groups represented by the general formula (7) or (8)

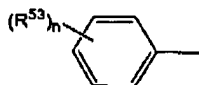
formula (7)



formula (8)

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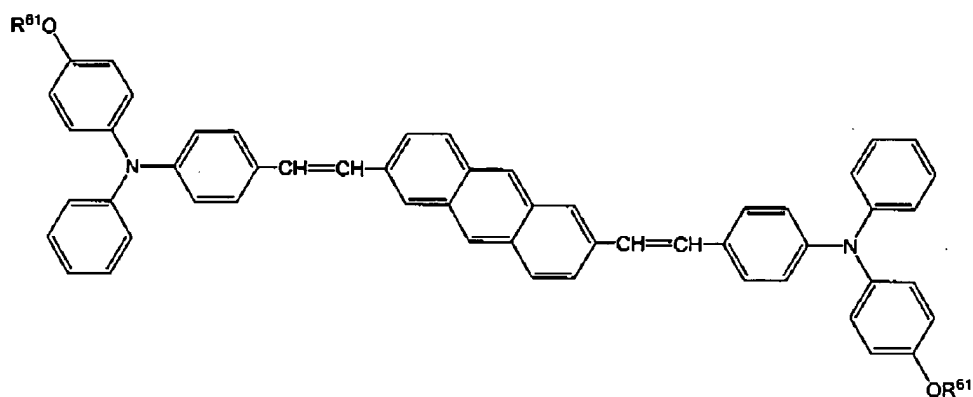
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where R^{52} , R^{53} denotes a saturated or unsaturated hydrocarbon group having one or more carbons; n is an integer of 0 to 6.

11. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 10, wherein R^{52} , R^{53} each has 1 to 6 carbon atoms.

12. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 1 or 10 which is represented by formulae (27), (28), (29)
formula (27)

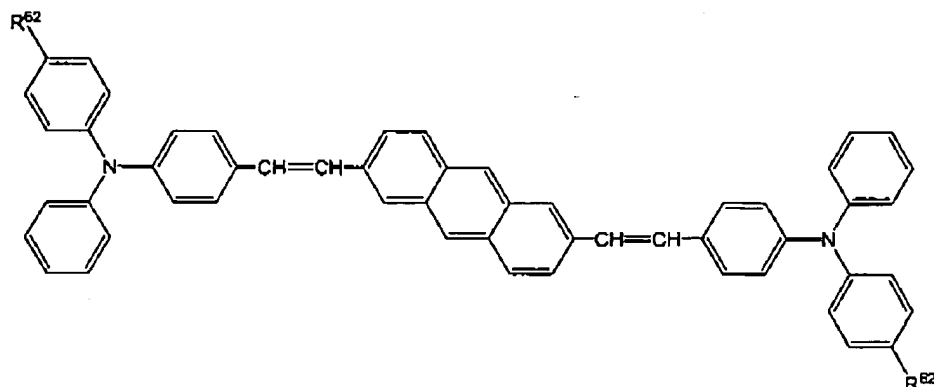


where R^{61} denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (28)

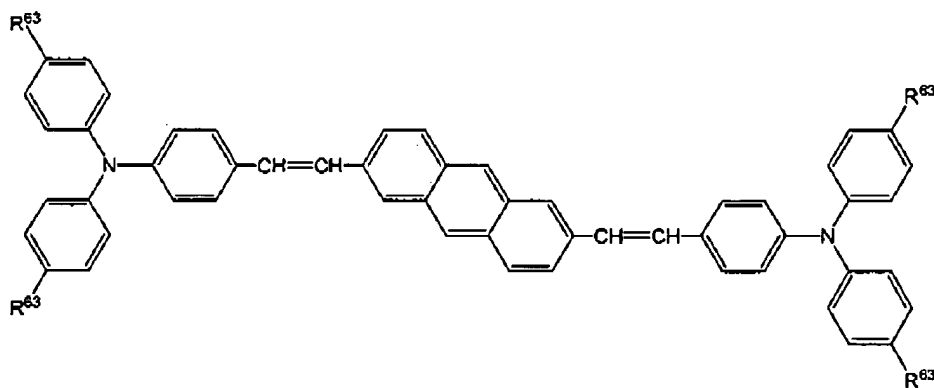
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where R⁶² denotes a saturated or unsaturated hydrocarbon group having 1 to 6 carbon atoms

formula (29)



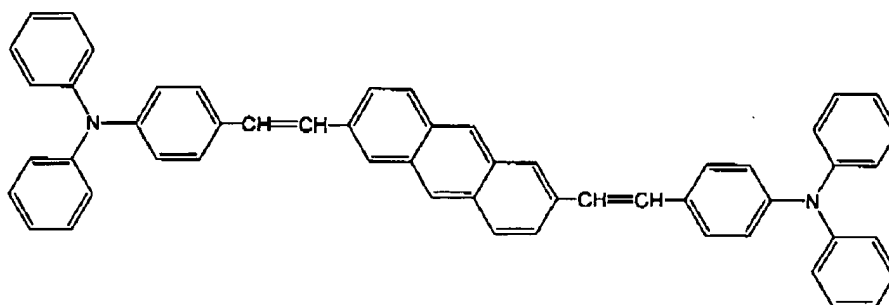
where R⁶³ denotes a saturated or unsaturated hydrocarbon group or hydrocarbon oxy group having 1 to 6 carbon atoms.

13. (Previously presented) A bis(aminostyryl)anthracene compound as defined in Claim 1 or 10 which is represented by formulae (32)-1, (32)-2, (32)-2', (32)-3, (32)-4,

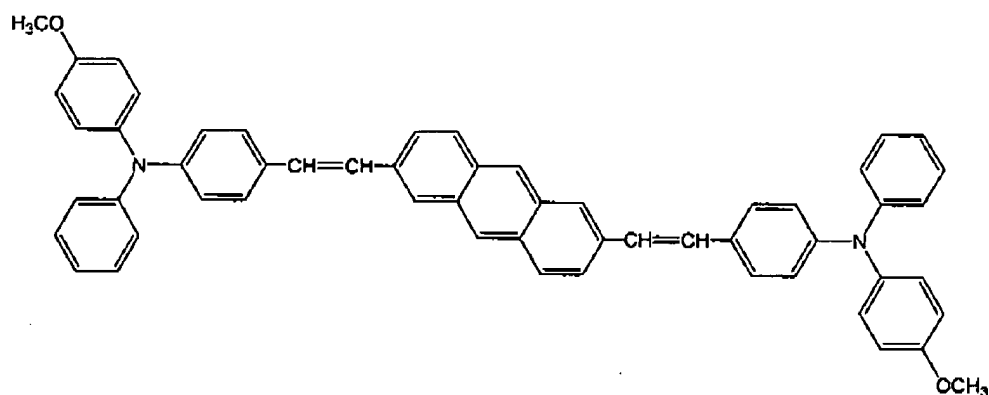
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formula (32)-1



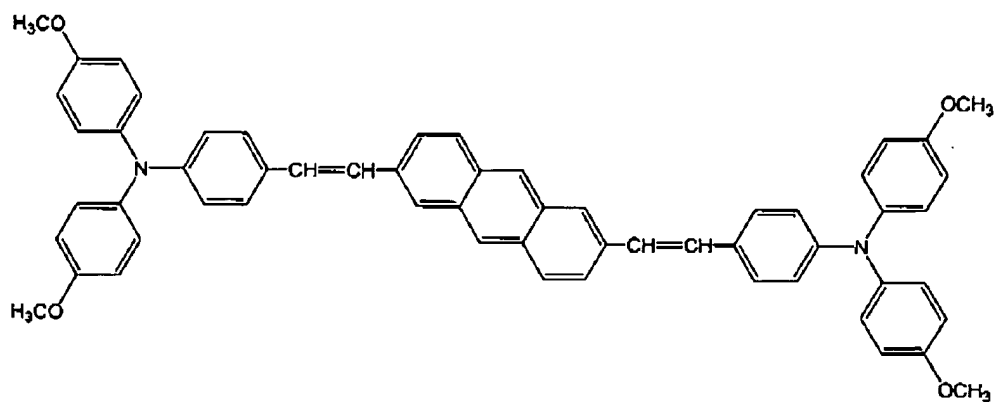
formula (32)-2



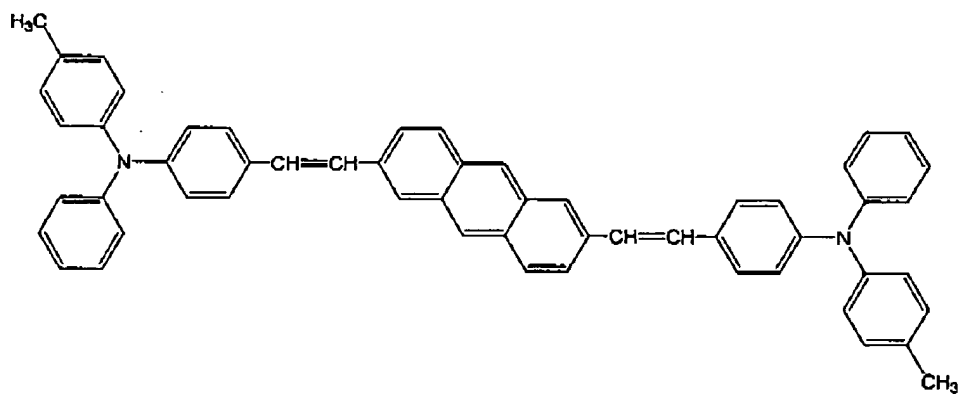
formula (32)-2'

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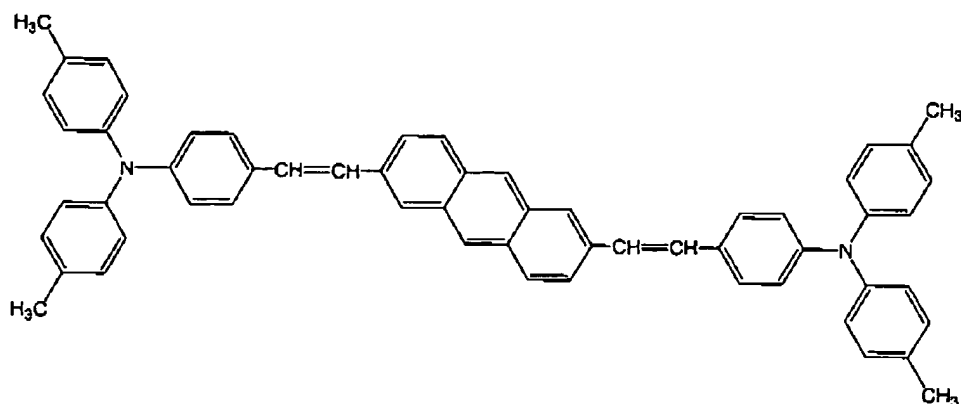
formula (32)-3



formula (32)-4

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14. - 42. (Canceled)